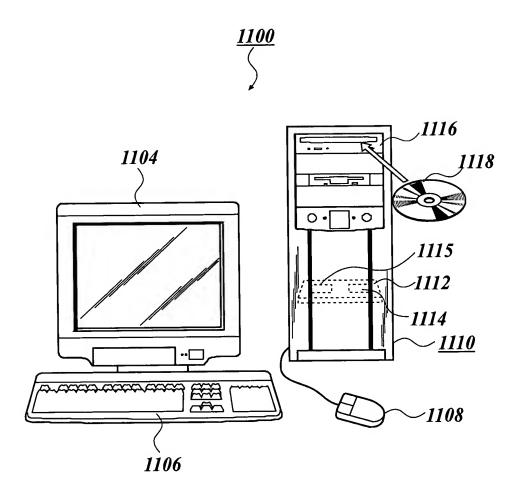
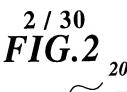
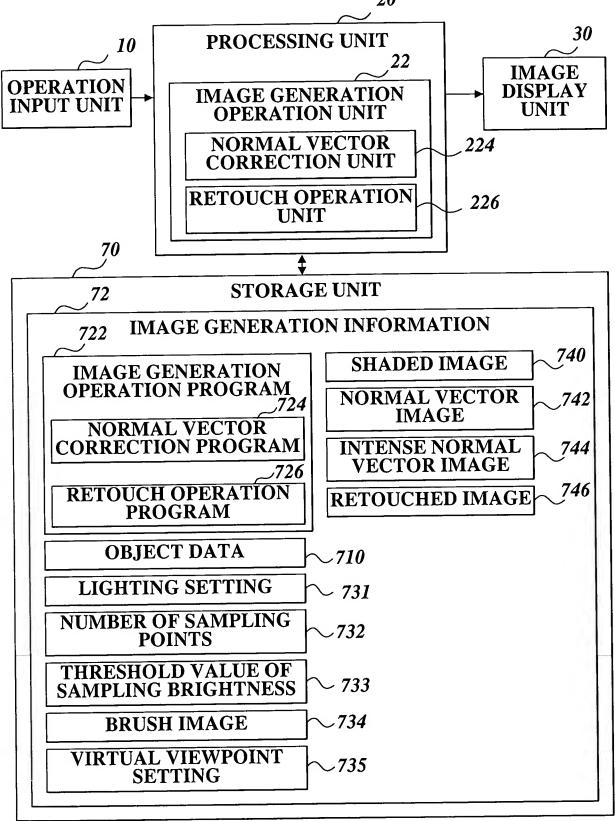
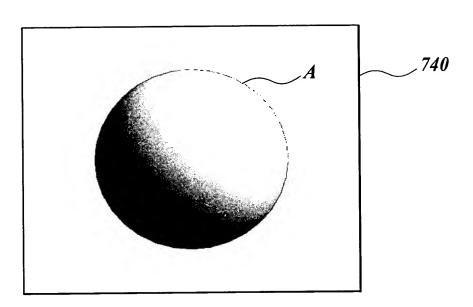
1/30 **FIG.1**



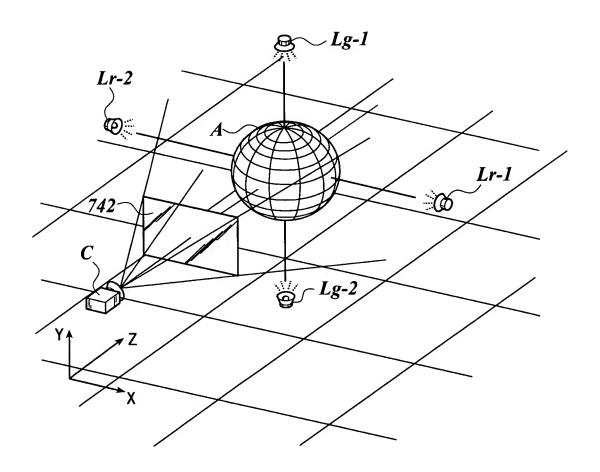




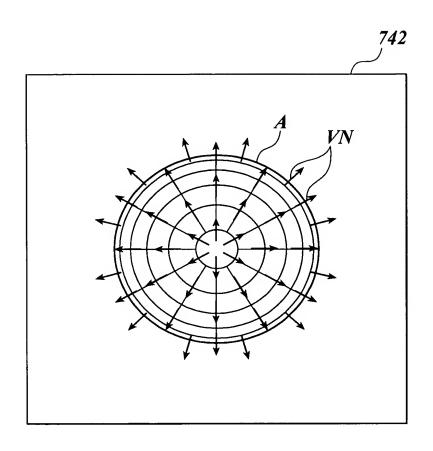
3/30 **FIG.3**



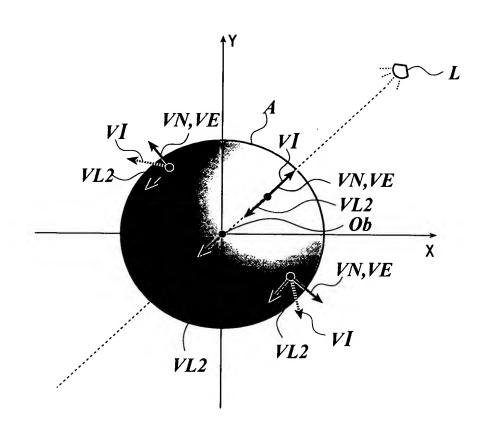
4/30 FIG4



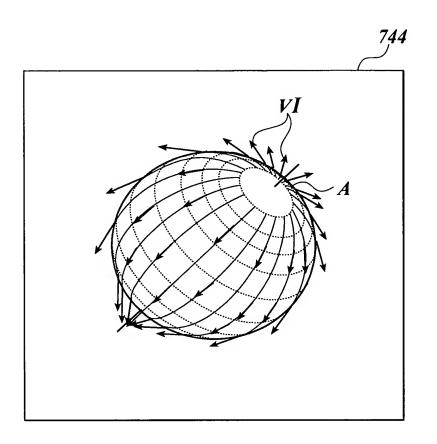
5/30 **FIG.5**

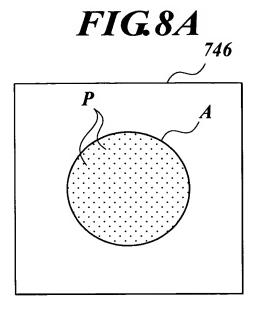


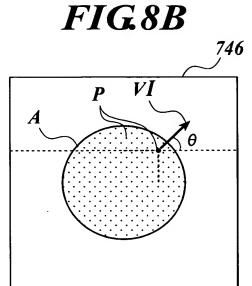
6/30 **FIG.6**

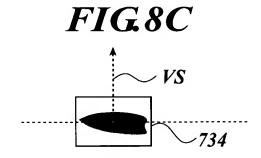


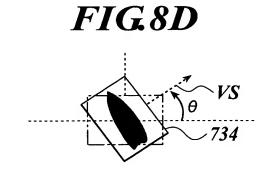
7/30 FIG.7

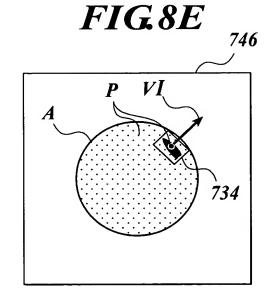


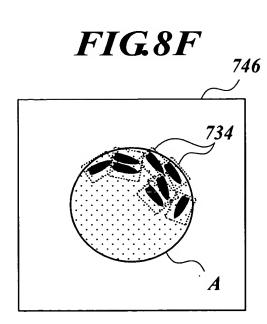




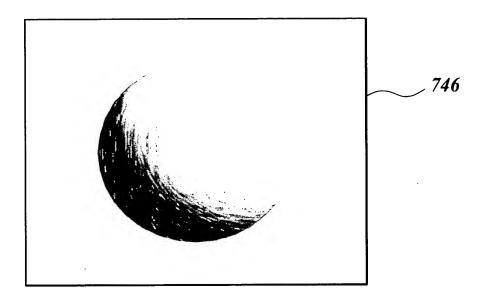




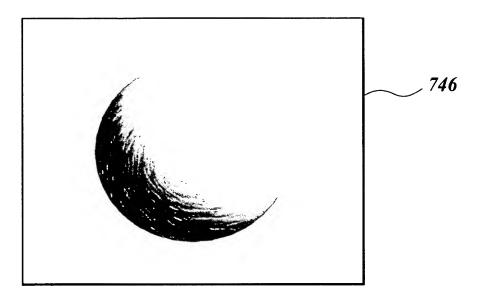




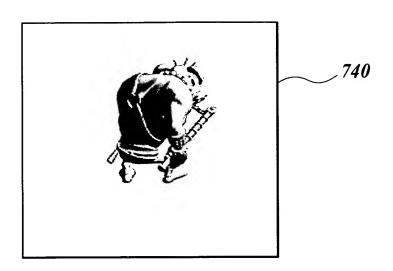
9/30 **FIG.9**



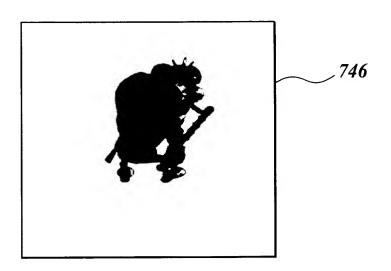
10/30 FIG 10



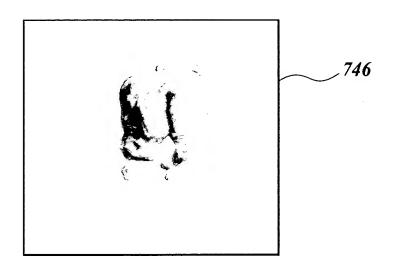
11/30 **FIG.11**



12/30 FIG.12



13/30 **FIG.13**



14/30 FIG.14A

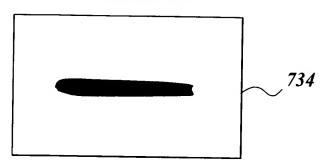


FIG.14B

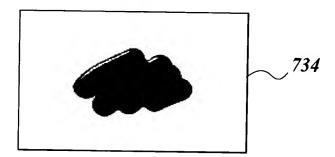


FIG.14C

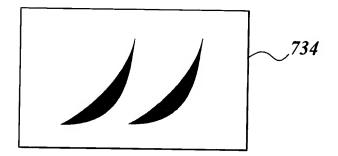
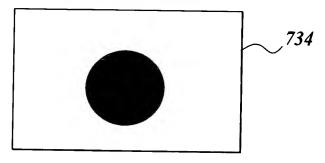
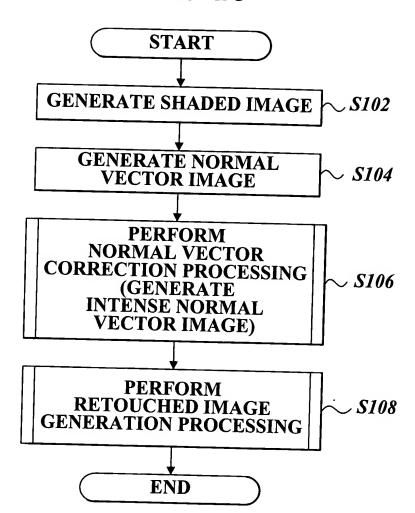


FIG.14D



15 / 30 FIG 15



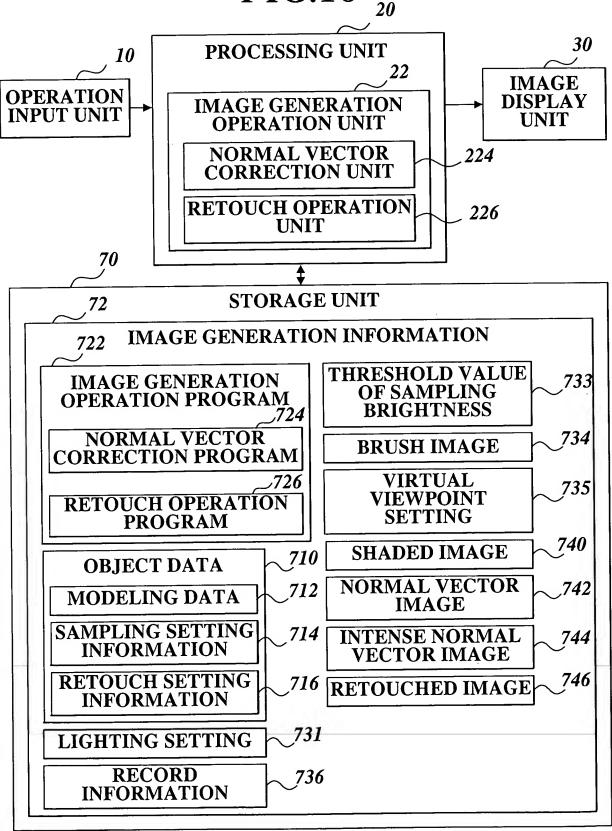
16 / 30 FIG 16

11010	
NORMAL VECTOR CORRECTION PROCESSING	1
DE AD A LOVENING CHEMICAL TO THE CONTROL OF THE CON	
READ LIGHTING SETTING AND CALCULATE LIGHT SOURCE VECTOR	~S202
+	
CONVERT LIGHT SOURCE VECTOR TO UNIT VECTOR	~ S204
CALCULATE IMAGE CENTER	
CALCULATE IMAGE CENTER	\sim S206
LOOP (1) (EXECUTE LOOP PROCESSING (1) TO ALL PIXELS OF NORMAL VECTOR IMAGE)	S208
INVEDT LICHT COURCE VECTOR	
INVERT LIGHT SOURCE VECTOR TO LIGHT RAY VECTOR VL2	\sim S210
CONVEDE LICHTED AN AUGUST AND	_
CONVERT LIGHT RAY VECTOR VL2 TO UNIT VECTOR	S212
CALCULATE EYES VECTOR VE	7- 6214
CALCULATE ETES VECTOR VE	S214
CONVERT EYES VECTOR VE TO UNIT VECTOR	$]\sim$ S216
READ R VALUE, G VALUE AND α VALUE	٦
OF GAZE POINT OUT OF	6210
NORMAL VECTOR IMAGE	S218
YES	
$S220 \sim \alpha \text{ VALUE} = 0? \text{ YES}$	
▼ NO	500
CALCULATE NORMAL VECTOR VN	$\supset S224$
•	
CALCULATE INTENSE NORMAL VECTOR VI	$S226 \mid S222$
(SYNTHESIZE VECTORS VL2, VE AND VN, AND	
CONVERT SYNTHESIZED VECTOR TO UNIT VECTOR	(R,G)=(0,0)
CHOPE VECTOR VALVE OF TO	
STORE VECTOR VALUE (X, Y) OF	
INTENSE NORMAL VECTOR VI	\sim S228
INTO (R, G) VALUE OF CORRESPONDING PIXEL OF INTENSE NORMAL VECTOR IMAGE	
OF INTERISE NORMAL VECTOR INTAGE	_
LOOP (1)	
	232
RETURN	

17 / 30 FIG 17

(RETOUCHED IMAGE GENERATION PROCESSING) **READ NUMBER OF SAMPLING POINTS** \sim S302 **SET POSITION COORDINATES** S304 × OF SAMPLING POINTS **LOOP (2) (EXECUTE LOOP PROCESSING (2)** S306 TÒ ALL SAMPLING POINTS) READ BRIGHTNESS VALUE S308 **OUT OF SHADED IMAGE BRIGHTNESS** < NO THRESHOLD VALUE OF SAMPLING ~ S310 **BRIGHTNESS? VYES** CALCULATE INTENSE NORMAL VECTOR **BASED ON R VALUE AND** S312 ر G VALUE OF COLOR INFORMATION OF INTENSE NORMAL VECTOR IMAGE CALCULATE INTERSECTION ANGLE θ S314 OF INTENSE NORMAL VECTOR AND X-AXIS ROTATE BRUSH IMAGE BASED ON S316 INTERSECTION ANGLE θ (TO COINCIDE WITH DIRECTION OF TOUCHING) **DETERMINE BRIGHTNESS VALUE** *S318* OF BRUSH IMAGE BASED ON **BRIGHTNESS VALUE OF SHADED IMAGE** RENDER BRUSH IMAGE AT SAMPLING POSITION S320 _ S322 LOOP (2) PERFORM MASKING PROCESSING ~ S324 RETURN





19 / 30 FIG.19

SAMPLING SETTING INFORMATION		
OBJECT ID	DRAGON A	
SAMPLING IMAGE	INTENSE NORMAL VECTOR IMAGE	
SAMPLING TYPE	RANDOM	
RANDOM PATTERN	RANDOM ii	
SAMPLING CURVE	CURVE A	
SAMPLING CURVE OFFSET QUANTITY	3	
SAMPLING NUMBER	100	

20 / 30 FIG.20

716

	\sim	
RETOUCH SETTING INFORMATION		
716a	OBJECT ID	DRAGON A
716b	USING BRUSH	brush_n11
716c	BRUSH SIZE	100(%)
716d	BRUSH ROLL	60(°)
716f	BRUSH MOVEMENT RANGE	15 (PIXELS)
716e	BRUSH REPEAT NUMBER	3
716g	RANDOM SETTING METHOD	EVERY FRAME
716h	POSITION OFFSET RANGE	-5 ~ +5 (PIXELS)
716j 🕌	POSITION OFFSET VARIATION	2(PIXELS)
716k	ROTATION OFFSET RANGE	-7 ~ +7 (°)
716m	COLOR SAMPLING MATERIAL	PAINT IMAGE
716n	COLOR SAMPLING CURVE	CURVE A
716p	CURVE OFFSET	3
716r	BRUSH COLOR	(R,G,B)=(112, 150, 250)
716s	COLOR NUMBER	256

21/30 FIG 21A

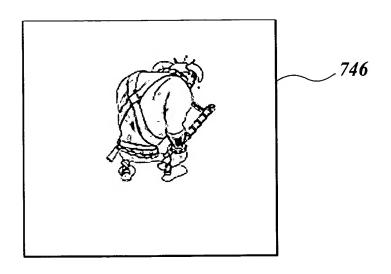
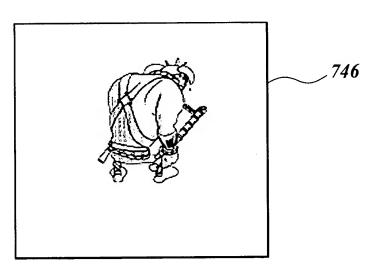
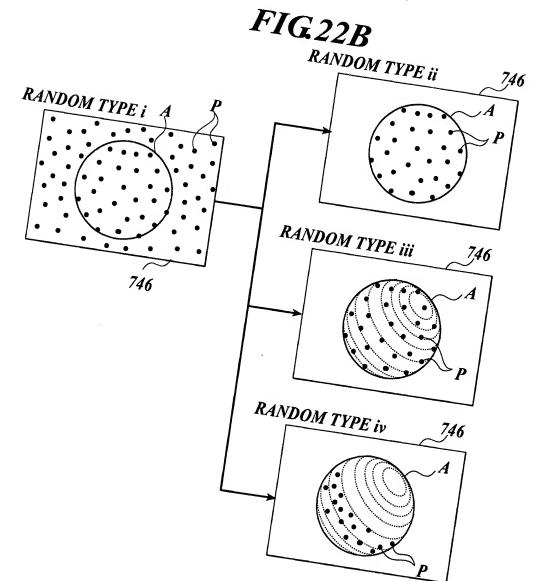
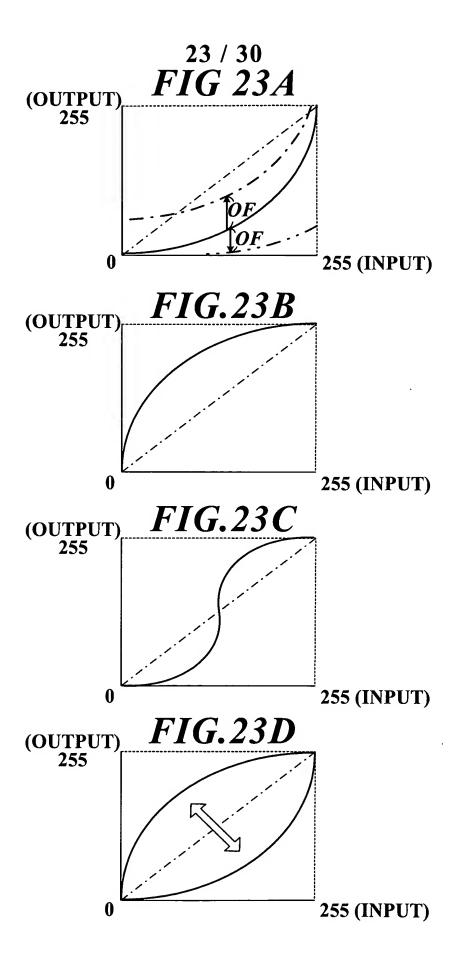


FIG.21B



22/30
FIG. 22A
GRID TYPE 746





24/30 FIG.24A

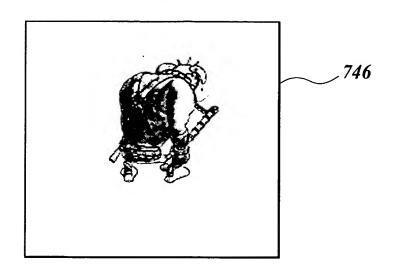
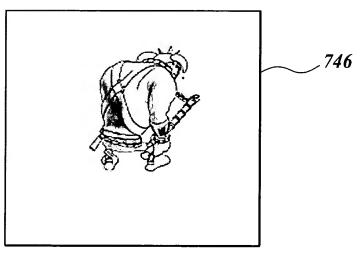


FIG.24B



25/30 FIG.25A

OFFSET(deg)

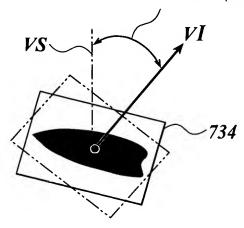


FIG.25B

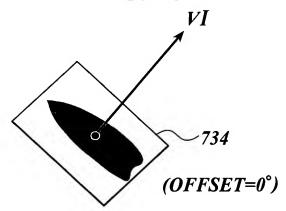
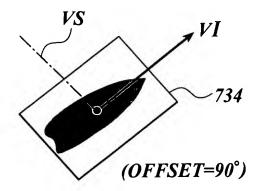
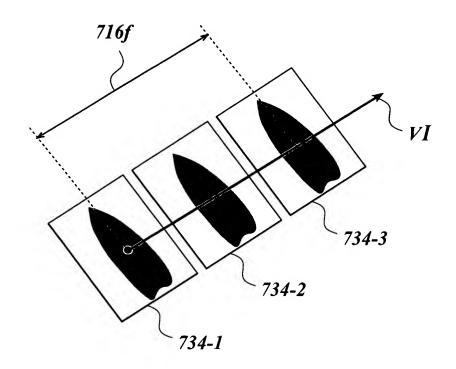
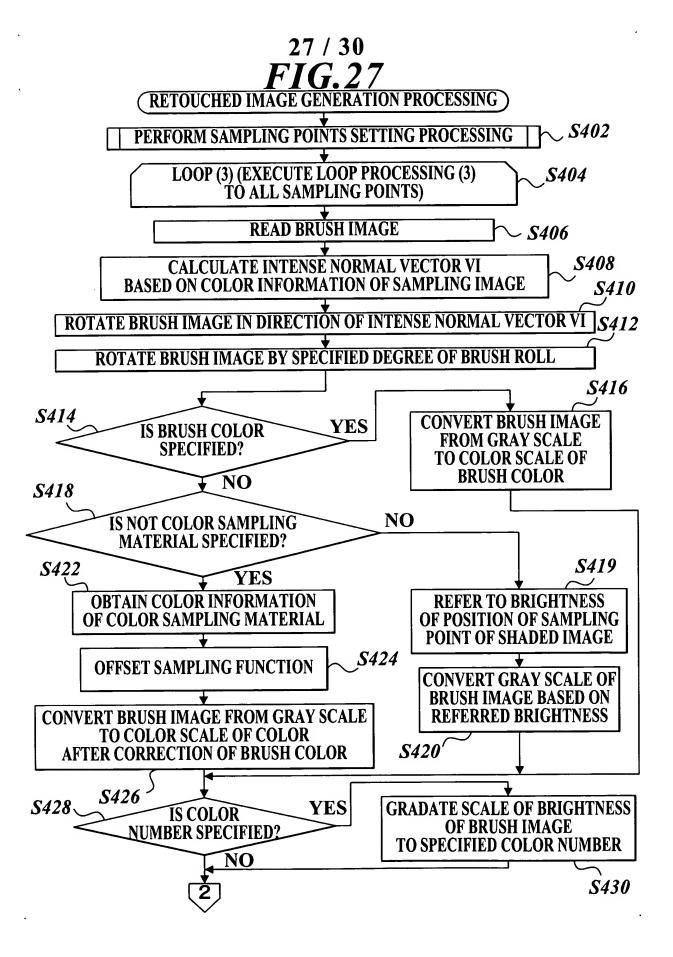


FIG.25C



26/30 FIG.26





28 / 30 FIG. 28

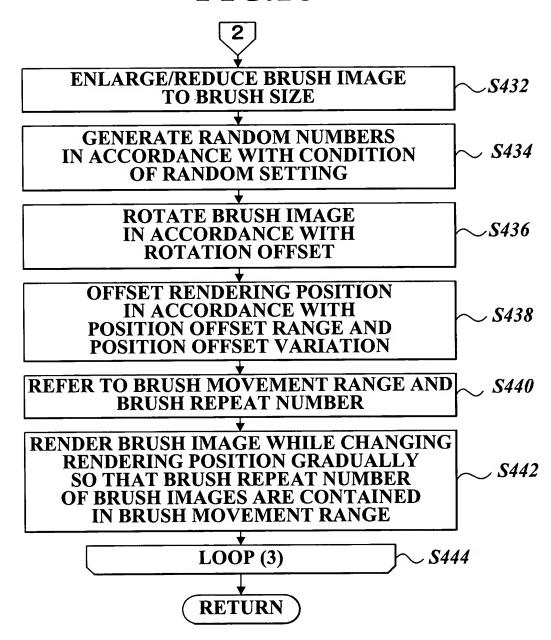


FIG 29

